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ABSTRACT

Reported are the results of a survey on preservice elementary mathematics teacher education conducted by the Commission on the Education of Teachers of Mathematics of the National Council of Teachers of Mathematics. The Commission surveyed over 350 teacher education institutions in the United States and over 20 in Canada. The purpose of the survey was to ascertain the status of preservice mathematics teacher education programs in North America. The document contains the survey instrument and reports the frequency of each response on each item. The survey instrument has seven major categories: admission, elementary mathematics major, mathematics content preparation, mathematics teaching methods preparation, other professional education courses, student teaching, and general information. (MP)

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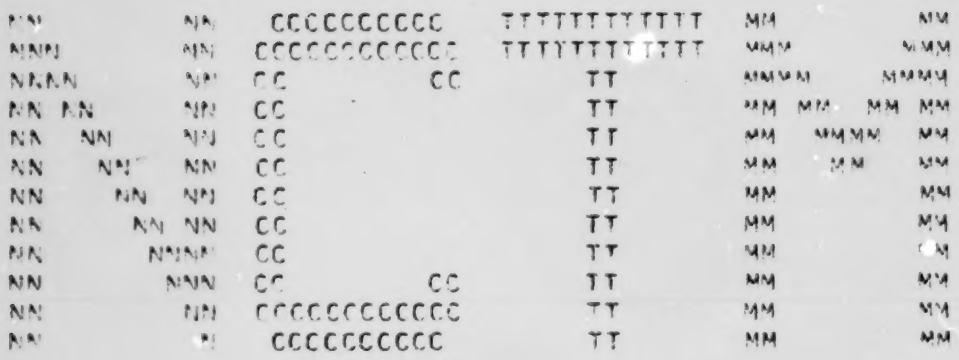

COMMISSION ON THE EDUCATION OF TEACHERS OF MATHEMATICS

SURVEY

OF

PRE-SERVICE TEACHER EDUCATION PROGRAMMES

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

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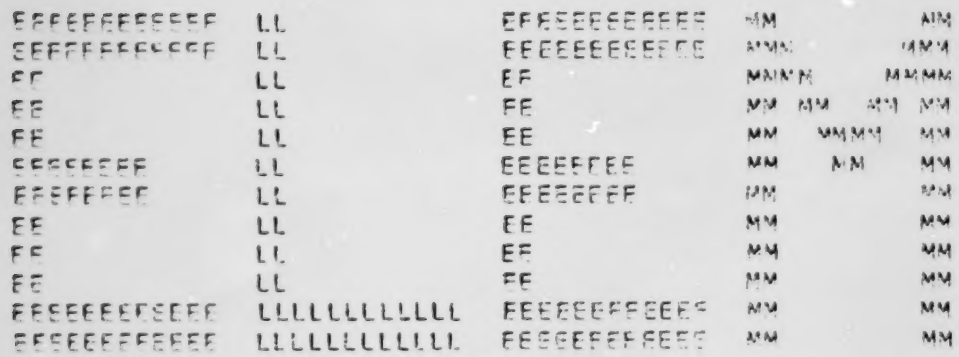

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APRIL 1978

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SE 025 376

NATIONAL COUNCIL OF
Teachers of Mathematics
1906 Association Drive, Reston, Virginia 22091 ■ (703) 620-9840

Commission on the Education of Teachers of Mathematics

Survey Instrument on Preservice Elementary Mathematics Teacher Education

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A. Admission

1. Do you have special criteria for admission to elementary teacher education in addition to those established for admission to the institution? ☐ YES ☐ NO

If the answer to question 1 is "NO," omit question 2 and proceed to part B, question 3.

2. Check each of the criteria used to determine admission to a program in elementary education. Please put a star by the letter of each checked criterion that is not required for admission to the institution. Also for each checked criterion, please provide the requested information.

a. Overall grade point average (GPA) ☐ Cut-off score:_____

b. High school rank or average ☐ Cut-off score:_____

c. Aptitude test, e.g., ACT, SAT ☐ Name of test:_____
Cut-off score:_____

d. Speech clearance ☐ By what means?_____

e. Personal interview ☐ By whom?_____

f. Recommendation(s) from faculty ☐ Number? or sources?_____

g. Other ☐ Please describe:_____
_____
_____.

B. Elementary Mathematics Major

3. Can an elementary education student take a major or concentration in mathematics? ☐ YES ☐ NO

If your answer to question 3 was "NO," then omit the rest of this part and proceed to part C.

All the remaining items in this part of the questionnaire concern the students majoring or concentrating in elementary mathematics education. Though the questions are worded "elementary mathematics major," both majors and concentrations are intended. If you have both majors and concentrations at your school, please answer for both groups and identify each answer with the proper group.

4. On the average, how many elementary mathematics majors graduate each year from your institution? Number:_____

5. Which mathematics content courses do elementary mathematics majors take that the other elementary education students do NOT take?

Title_____ Unit value_____

Title_____ Unit value_____

Title_____ Unit value_____

Title_____ Unit value_____

Others_____

_____

6. Which mathematics methods courses do elementary mathematics majors take that the other elementary education students do NOT take?

Title_____ Unit value_____

Title_____ Unit value_____

Title_____ Unit value_____

Title_____ Unit value_____

C. Mathematics Content Preparation

7. Which of the following best describes the organization of your institution:

☐ semester system ☐ trimester system ☐ quarter system ☐ 1-year term

8. Circle the numeral below that represents the number of credit hours in mathematics content required of all elementary education majors enrolled in the institution:

0 1 2 3 4 5 6 7 8 9 10 11 12 More than 12

9. a. Required mathematics content courses must be taken before the methods courses ☐ YES ☐ NO

b. Required mathematics content courses may be taken concurrently with the methods courses ☐ YES ☐ NO

c. There is no requirement about the timing of the mathematics content and methods courses ☐ YES ☐ NO

10. Below is a list of mathematics topics. Please check the appropriate box according to whether the specified topic is in a course required or recommended for elementary education students.

a.	Arithmetic functions (numerations, computation with whole numbers, fractions, decimals)	☐ Required	☐ Recommended	☐ Not Studied
b.	Algebra (sets, rational numbers, field properties, integers, linear functions, graphing, equations)	☐ Required	☐ Recommended	☐ Not Studied
c.	Geometry (shapes, properties of plane figures, proof, axiomatics, consturctions)	☐ Required	☐ Recommended	☐ Not Studied
d.	Probability and statistics (combinations, sampling, descriptive statistics)	☐ Required	☐ Recommended	☐ Not Studied
e.	Coordinate geometry and vectors	☐ Required	☐ Recommended	☐ Not Studied
f.	Computer use	☐ Required	☐ Recommended	☐ Not Studied
g.	Calculator mathematics	☐ Required	☐ Recommended	☐ Not Studied

h. Other (please list)_____

_____

_____

11. Please list below the names of the mathematics content courses taken by all education students, not just the elementary mathematics majors:

	Course Title	Text Title	Unit value	Instructor-constructed Materials
a.	_____	_____	_____	Yes ☐ No ☐
b.	_____	_____	_____	Yes ☐ No ☐

D. Mathematics Teaching Methods Preparation

12. Circle the numeral below that represents the number of credit hours in mathematics methods required of all elementary education majors enrolled in the institution:

0 1 2 3 4 5 6 7 8 9 More than 9

13. Place a check mark in the appropriate column for each kind of nonprint material and estimate the number of clock-hours use with each.

	Students have hands-on experience	Clock hours	Use is demonstrated to students	Clock hours
a. Attribute blocks				
b. Geometric shapes, e.g., Geoblocks, pattern blocks, tangrams				
c. Place value materials, e.g., Multibase Arithmetic Blocks, Chip trading activities				
d. Geoboards				
e. Counting materials, e.g., chips linking cubes				
f. Colored rods				
g. Abacus				
h. Hand-held calculator				
i. Computer				
j. Filmstrips				
k. Overhead transparency films				
l. Computation games, e.g., TUF, Heads-Up				
m. Films				

n. Other (please specify)_____

_____

_____

14. Please check each of the following products that are generally required of the elementary education students in their mathematics methods course(s):

a. an original mathematical game

b. summaries of journal articles

c. book critiques

d. self-contained learning package

e. an original laboratory or discovery activity

f. a resource or idea file

g. Other (please specify)_____

_____

_____

15. Check each of the activities and/or instructional areas emphasized in your instruction in mathematics education.

	None	Little	Moderate	Extensive
a. Study of learning theories related to mathematics				
b. Lesson planning				
c. Test item construction				
d. Manipulatives/labs in mathematics				
e. Use of media				
f. Use of computers				
g. Use of calculators				
h. Exposure to the activities and journals of the NCTM				

		None	Little	Moderate	Extensive
i.	Exposure to the activities and journals of state/local mathematics education professional organizations				
j.	Study of problems in				
	1. special education				
	2. urban education				
	3. career education				
	4. slow/gifted students				
	5. individualized instruction				
k.	Analysis of video tapes				
l.	Pencil-paper simulations				
m.	Micro-teaching to peers				
n.	Other (please specify)				
	_____				
	_____				
	_____				

E. Other Professional Education Courses

16. Please check the appropriate column concerning other courses required or recommended for elementary education students.

Courses		Required	Recommended	Not Suggested
a.	Dynamics of Group Learning			
b.	Educational Phychology Statistics			
c.	Philosophy of Education			
d.	Sociology of Education			
e.	Theories of Learning			
f.	History of Education			

F. Practicum/Field Experiences

17. Check only those activities REQUIRED in the field as part of the mathematics education program, exclusive of student teaching.

a. Observation

b. One-to-one tutoring

c. Small group instruction

d. Other (please specify)_____

If none of the above applies to your situation, please proceed to question 19.

18. Please fill in the appropriate information for each of the activities you checked in item 17.

	number of clock hours	grade levels	Check each of those who regularly supervise: Graduate Student	College Faculty	Public School Faculty
a. Observation	____	____	____	____	____
b. One-to-one tutoring	____	____	____	____	____
c. Small group instruction	____	____	____	____	____
d. Other (as specified in item 17)	____	____	____	____	____

ITEMS 19 - 22 ARE CONCERNED WITH THE STUDENT TEACHING EXPERIENCE(S).

19. Check all of the following that are prerequisites to student teaching:

a. passing grade in one or more mathematics education courses

b. overall GPA Cut-off score:____

c. GPA in major Cut-off score ____

d. Other (please specify)_____

_____

20. a. On the average, how many clock hours of student teaching does each elementary education student have before taking the mathematics methods course(s)?

Hours:_____

b. On the average, how many clock hours of student teaching does each elementary education student have during the mathematics methods course?

Hours:_____

c. On the average, how many clock hours--including those listed above in a. and b.--of student teaching does each elementary education student have upon graduating?

Hours:_____

d. On the average, how many of the clock hours listed above in c. are spent teaching mathematics?

Hours:_____

e. How many clock hours of student teaching are the elementary education students required to spend teaching mathematics?

Hours: _____

21. The student teaching experience:

a. Total number of weeks:_____

b. Number of class hours taught each day during last week of student teaching:_____

22. Student teaching supervision:

Number of visits made by a mathematics specialist from the institution	Number:_____
Number of visits made by a nonmathematics specialist from the institution	Number:_____
Number of visits made by a graduate student	Number:_____
Average length of visit	Minutes:_____

G. General Information

23. Is the mathematics preparation of the elementary education students related to science?

Content YES ☐ NO ☐

Methods YES ☐ NO ☐

24. Has your state/province either already mandated Competency-based Teacher Education (CBTE) or committed itself to do so by some future date?

YES ☐ NO ☐ If you marked "NO," go to item 26.

25. To what extent is your program presently competency-based?

None ☐ Little ☐ Moderate ☐ Extensive ☐

26. Which of the following kinds of specific certifications does your program prepare?

_____Pre-school _____K-3 _____4-6 _____K-6

_____Other (please describe)_____

_____

27. If only one principal certification is available for elementary education students at your institution, which added endorsement options are available?

_____Pre-school _____Middle school _____Kindergarten-primary

_____Junior secondary _____Other (please describe)_____

_____

28. Check each of the following means by which you have evaluated your program since 1972.

a. Follow-up of graduates

b. Written feedback form given to those just completing program

c. Written survey of public school cooperating faculty

d. Other (please specify)_____

_____

_____

29. How many years ago was the most recent elementary classroom teaching experience for each of the instructors teaching your elementary mathematics methods courses?

Has Never Taught At That Level	Years	
_____	____	Mathematics methods Instructor A
_____	_____	Mathematics methods Instructor B
_____	_____	Mathematics methods Instructor C

How many years ago was the most recent elementary classroom teaching experience for each of the instructors teaching your elementary mathematics content courses?

Has Never Taught At That Level	Years	
_____	_____	Mathematics content Instructor A
_____	_____	Mathematics content Instructor B
_____	_____	Mathematics content Instructor C

30. If the program includes some unusual, innovative, or particularly productive practices, please describe briefly below (use back of page if necessary), e.g., combined content-methods courses, alternate programs, computerized instruction.

31. What is the single most important aspect of your program? Describe briefly and indicate whether explanatory/support materials are available upon request.

32. What is the greatest need or problem in your program?

Thank you for spending the time necessary to complete this form. Please return it in the envelope provided to:

Mr. Charles R. Hucka
NCTM
1906 Association Drive
Reston, Virginia 22091

ELEMENTARY SURVEY
U. S. A. and CANADA

Item 5---MATHEMATICS CONTENT COURSE TAKEN BY MAJORS

1. Algebra
2. Trigonometry
3. Computers(See #43)
4. Finite mathematics
5. Probability and statistics
6. Junior level/Senior level
7. Geometry for elementary teachers
8. Electives
9. Analytic Geometry
10. Calculus
11. Pre-calculus algebra and trigonometry
12. Linear algebra
13. Intermediate calculus
14. Theory of numbers
15. Foundations of mathematics
16. Others
17. Abstract algebra
18. Mathematics for elementary teachers
19. College geometry
20. Analysis for elementary teachers
21. Business mathematics
22. History of mathematics
23. Trends in pre-college mathematics
24. NONE(Combined with zero score)
25. College mathematics
26. Number systems
27. Modern concepts of mathematics
28. Mathematical Insights
29. Algebra in the elementary schools
30. Logic
31. Theory of sets
32. Selected topics
33. Discourse in mathematics
34. Informal geometry
35. Elementary functions
36. Modern geometries
37. Mathematics labs
38. *
39. Theory of arithmetic
40. Basic concepts of mathematics
41. Academic major in mathematics
42. Measurement and computation
43. Computers(Same as #3)
44. *
45. *

*These categories were on questionnaires which were eliminated due to insufficient data.

Item 6---MATHEMATICS METHODS COURSE TAKEN BY MAJORS

1. NONE (Combined with zero score)
2. Teaching skills
3. Mathematics for elementary teachers
4. Elementary mathematics methods
5. Advanced seminar in elementary school
6. Curriculum: Mathematics concepts for early childhood learning
7. *
8. *
9. Mathematics education 7 - 12
10. Mathematics labs
11. Geometry in the elementary schools
12. Computers in the schools
13. Electives---Mathematics
14. Corrective techniques
15. Individualized mathematics in the elementary schools
16. Methods for team leadership---Mathematics
17. Modern Mathematics
18. Measurement and metrics
19. Problems in teaching arithmetic
20. Mathematics in the middle school
21. Topics in elementary school mathematics
22. Teaching mathematics to slow learners
23. *

Item 11---MATHEMATICS CONTENT COURSE TAKEN BY ALL

1. Mathematics for elementary Teachers
2. Algebra
3. Some locally numbered course
4. NONE(combined with zero score)
5. Fundamental concepts of mathematics
6. Electives
7. Introduction to mathematics and computers
8. Symbols of mathematics systems
9. Theory of arithmetic and geometry
10. Numbers communication
11. Structure of the number system(arithmetic)
12. Concepts of numbers
13. Basic mathematics
14. Contemporary (or modern) mathematics
15. Modern elementary mathematics
16. Mathematics concepts
17. Mathematical structures
18. Mathematics for general studies
19. Statistics
20. College mathematics
21. Geometry for elementary teachers
22. Mathematical discourses
23. Mathematics from an advanced standpoint
24. Cultural mathematics
25. Logic and sets
26. Probability and statistics
27. Mathematics furdamentals
28. Mathematics surveys
29. Basic algebra and geometry
30. Foundations of mathematics
31. General mathematics
32. Mathematics in the elementary schools
33. Introduction to mathematics
34. Finite mathematics
35. Principles of mathematics
36. Pre-calculus mathematics
37. Real number system
38. Nature of mathematics
39. Elements of mathematics
40. Primary mathematics
41. Topics in mathematics
42. Mathematics for applications
43. Foundations of elementary mathematics
44. Educational mathematics
45. *

Item 11---TEXTBOOK FOR COURSE TAKEN BY ALL

1. Instructor's notes
2. Basic Algebra
3. Mathematics for Elementary School---Begle
4. Mathematics in the Elementary School---Schultz
5. Today's Mathematics---Heddens
6. Mathematics: Man-Made Universe
7. Contemporary Mathematics---Meserve
8. Theory of Arithmetic---Peterson
9. Modern Mathematics: An Elementary Approach---Wheeler
10. Varies
11. Topics in Contemporary Mathematics---Britten and Bello
12. Practical Mathematics
13. The Power of Relevant Mathematics
14. Modern Elementary Mathematics
15. A book by Devine and Kaufman
16. A Survey of Mathematics
17. Nature of Mathematics
18. Statistics: A Common Sense Approach
19. Introduction to Mathematics---Meserve and Sobel
20. Algebraic and Arithmetic Structures---Bell
21. Patterns and Systems
22. Elementary College Mathematics
23. A book by O'Daffer and Clemens(spelling?)
24. Journals and other professional publications
25. Mathematics: An Everyday Experience---Miller
26. Lessons in Essential Mathematics--Book I
27. Mathematics From An Advanced Standpoint
28. Basic Mathematics
29. College Algebra
30. *
31. Foundations of Number Systems
32. Mathematical Ideas
33. Theory of Applications of Mathematics for Teachers
34. Arithmetic Concepts and Skills
35. Introduction to Mathematics---Krananie(spelling?)
36. Introduction to Mathematics---Burleson
37. Introduction to Statistics
38. Basic Concepts of Mathematics for Elementary Teachers---Dubisch
39. Mathematics Methods Program---Indiana Project
40. Mathematics for Elementary Teachers
41. Principles of Mathematics---Rees
42. Elementary Mathematics---Filippone
43. Mathematics: A Human Endeavor---Jacobs
44. A book by Willerding and Copeland
45. Introduction to Modern Mathematics---McFarland
46. Elementary Contemporary Mathematics---Ohmer, et. al.
47. Introduction to Modern Mathematics---Setek
48. Fundamentals of College Mathematics---Wheeler
49. Second Mathematics Course for Elementary Teachers---Krause
50. Diagnostic Teaching of Elementary School Mathematics

51. Intermediate Algebra---Keller
52. Basic Statistics
53. Principles of Arithmetic and Algebra---Allendorfer
54. Modern Elementary Mathematics---Graham
55. Nature of Modern Mathematics---Smith
56. Fundamental Arithmetic
57. Introduction to Modern Algebra
58. The Whole Craft of Number
59. Mathematics: A Liberal Arts' Approach
60. Use several textbooks
61. The Math Book
62. Mathematical Concrete Behavioral Foundations
63. Mathematics for Elementary School Teachers (same as #40?)
64. *
65. *

Item 30---INNOVATIVE PRACTICES

1. Prepare teachers that teach only mathematics
2. One course in mathematics; content and methods in education
3. Two methods courses
4. Integrated content and methods
5. Two content courses on elementary school mathematics prior to the methods course
6. Computer education course
7. Study "Buddy" approach
8. Students alternate between campus and elementary school
9. Methods taught in the mathematics department
10. Course offered in subject "blocks"
11. Undergraduates observe classes of previous graduates
12. Mathematics specialists teach methods
13. "Hands on" approach
14. Lab with methods course
15. Methods courses are connected to the field experience
16. Three alternatives for the content/methods are offered
17. Students work in mathematics labs in the elementary schools
18. Emphasis on "How can you find out yourself?"
19. Methods course designed like the elementary school
20. Kids are brought to campus for the methods class
21. Extensive field experiences
22. Students produce their own materials
23. Professor has extensive contact with students
24. Diagnosis and remediation component
25. Content courses designed by both mathematics and mathematics education
26. Combined science/mathematics methods
27. Use of materials
28. Combined science/mathematics resource room
29. Humanistic approach
30. Individualized instruction
31. Micro-teaching
32. Metric teaching is covered
33. Very flexible
34. Elementary education students must have <u>major</u> other than elementary education
35. Competency Based Teacher Education (CBTE)
36. Computer instruction
37. Use of the number line and use of Sorobon
38. Elementary mathematics concentrations research and help teach topics requested by local teachers
39. Use of video or audio tapes

40. Observe teachers as freshmen, aide as sophmores, teach half days all senior year
41. Indiana Project is used
42. Screen students on mathematics competency
43. Have contact with kids each year
44. Mathematics taught by mathematics education
45. Resident Intern Program (RIP)
46. Go to the schools to work with kids
47. Student teachers work in small groups in schools
48. *
49. Professors were elementary school teachers and still go in classes
50. Bidirectional TV tutoring
51. Presents up-to-date legal issues
52. Demonstration lessons
53. Students grouped by experience
54. Used the Multi-Media Individualized Elementary Teacher Preparation Program
55. Stresses the learning disabled population
56. Professors are in mathematics and mathematics education
57. Small group for classes
58. Alternatives to regular program

Item 31---SINGLE MOST IMPORTANT ASPECT OF PROGRAM

1. Planning and teaching the program for the students
2. Lab oriented
3. Sensitize the students to teaching
4. Cooperation of the faculties
5. School personnel used in methods classes
6. Field experiences
7. Methods and field experiences tied together
8. School textbooks used in methods classses
9. Small classes
10. Change negative attitudes
11. Learning theories
12. Methods/content integrated
13. Supervision/individual work with students
14. Methods courses taught by specialists
15. Content/methods taught in mathematics department
16. Clinic on pre-number experiences
17. Learning packets(individual instruction)
18. Students make materials
19. Multi-methods approach
20. Diagnosis/remediation approach
21. Academic background
22. Peer teaching
23. Lets kids be creative
24. Five year program with one semester of student teaching
25. Methods classes
26. Flexibility and variety
27. NONE(combined with zero score)
28. Mathematics taught realistically in lay terms
29. Performance level required
30. Pre-student-teaching experiences
31. Liberal arts program
32. Discovery approach
33. Personnel
34. Use of school kids in methods class
35. Everything
36. Student presentation of topics
37. Work with kids in school prior to student teaching
38. Professors work in the public schools all the time
39. Mathematics content
40. Content/methods taught in education
41. Minicourse within course
42. Team teaching
43. **
44. Use of VTR
45. **
46. **
47. CBTE
48. **
49. Deals with needed concepts
50. Use of teaching aids
51. Effort to get more mathematics in elementary program

**While these categories do appear on questionnaires, they never appear as the first listing under the single most important aspect of the program.

Item 32---GREATEST NEED IN THE PROGRAM

Due to the coding of Item 31 the field placement for item 32 varied. The data for Item 32, therefore, were analyzed by hand and appear below. *****U. S. A. RESULTS ONLY*****

1.	More time	52
2.	More involvement with non-mathematics professors	1
3.	More students	11
4.	Academic background of students	13
5.	Materials and facilities	19
6.	Work with kids during methods	6
7.	Too many required subject areas	1
8.	Required mathematics methods course	8
9.	Require everyone to teach some mathematics during student teaching	1
10.	Screening and preparation of cooperating teachers	2
11.	Money	11
12.	More staff	8
13.	More contact with schools	7
14.	Closer relation between content and methods	7
15.	Scheduling content areas	5
16.	Supervision	4
17.	Attitude	3
18.	More "hands-on" experience	6
19.	University lab school	2
20.	School placements	1
21.	Too much content in methods	1
22.	More communication among staff	1
23.	Continue program into senior year	1
24.	Demonstration classes	1
25.	More content	11
26.	No one wants to teach the content	1
27.	Evaluation/revision of program	2
28.	Heavy teaching load	1
29.	Place value	1
30.	***	-
31.	Strict state guidelines	2
32.	Strengthen methods classes	1
33.	Get rid of fear of teaching mathematics	1
34.	More control of field experiences	1
35.	Ability to handle discipline	1
36.	Cooperation between mathematics and education	1
37.	Content professors need more understanding of elementary teachers problems	1
38.	Suitable methods textbook	1
39.	Metric materials	1
40.	Difference between mathematics taught in college and in the elementary schools	3

41. Methods classes too large	2
42. Professors need more contact with schools	2
43. No diagnosis and remediation	1
44. ***	-
45. Getting the graduates jobs	1
46. ***	-
47. ***	-
48. ***	-
49. CETE	1
50. NONE(combined with zero score)	2
51. Maintaining present pace	1
52. Lack of skills to utilize resouces	1
53. Get kids to think	1
54. Surviving	1
55. More credit for methods courses	1

***These categories were either not listed as the most important problem or were subsets of other categories.

NCTM ELEMENTARY SURVEY

A HAVE ADDITIONAL ADMISSION CRITERIA

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	72	25.5	25.5	25.5
YES	1.	210	74.5	74.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

8 OVERALL GRADE POINT AVERAGE REQUIRED

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.0	68	24	24	2.15	4	1	52	2.60	1	0	97
1.00	3	1	25	2.20	32	11	64	2.70	1	0	98
1.10	1	0	26	2.25	35	12	76	2.75	2	1	98
1.20	2	1	26	2.30	11	4	80	3.00	2	1	99
1.25	1	0	27	2.35	1	0	80	3.25	1	0	99
2.00	61	22	48	2.40	3	1	82	4.25	1	0	100
2.10	8	3	51	2.50	43	15	97	40.00	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

C HIGH SCHOOL RANK OR AVERAGE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.0	275	97.5	97.5	97.5
	2.00	4	1.4	1.4	98.9
	2.25	1	0.4	0.4	99.3
	2.50	1	0.4	0.4	99.6
	200.00	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

D APTITUDE TEST NAME

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	228	80.9	80.9	80.9
ACT	1.	25	8.9	8.9	89.7
SAT	2.	15	5.3	5.3	95.0
NTE	3.	1	0.4	0.4	95.4
CAL TEST OF MEN MAT	4.	1	0.4	0.4	95.7
ACT OR SAT	5.	4	1.4	1.4	97.2
MTAT	6.	1	0.4	0.4	97.5
LOCALLY DEV TEST	7.	2	0.7	0.7	98.2
SCAT	8.	3	1.1	1.1	99.3
CTB-MCGRAWHILL	9.	1	0.4	0.4	99.6
	50.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

E APTITUDE TEST CUTOFF SCORE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.0	263	93.3	93.3	93.3
ACT	2.00	1	0.4	0.4	93.6
SAT	15.00	1	0.4	0.4	94.0
NTE	16.00	7	2.5	2.5	96.5
CAL TEST OF MEN MAT	17.00	1	0.4	0.4	96.8
ACT OR SAT	18.00	2	0.7	0.7	97.5
MTAI	20.00	1	0.4	0.4	97.9
LOCALLY DEV TEST	38.00	1	0.4	0.4	98.2
SCAT	100.00	1	0.4	0.4	98.6
CTB-MCGRAWHILL	300.00	1	0.4	0.4	98.9
	700.00	1	0.4	0.4	99.3
	800.00	2	0.7	0.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

ACTU ELEMENTARY SURVEY

F SPEECH CLEARANCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	157	55.7	55.7	55.7
SPEECH CLINIC	1.	17	6.0	6.0	61.7
SPEECH DEPARTMENT	2.	17	6.0	6.0	67.7
COURSE	3.	32	11.3	11.3	79.1
TEST	4.	29	10.3	10.3	89.4
INTERVIEW	5.	15	5.3	5.3	94.7
OBSERVE SPEECH	6.	9	3.2	3.2	97.9
ADVISOR	7.	1	0.4	0.4	98.2
PROFESSOR	8.	4	1.4	1.4	99.6
SPEECH THERAPIST	9.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

G WHO GIVES THE PERSONAL INTERVIEW?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO ONE	-0.	187	66.3	66.3	66.3
DEPARTMENT ADVISOR	1.	17	6.0	6.0	72.3
EDUCATION FACULTY	2.	25	8.9	8.9	81.2
EDUCATION COMMITTEE	3.	21	7.4	7.4	88.7
TEACHER ED DIRECTOR	4.	5	1.8	1.8	90.4
ED DEPT CHAIRPERSO	5.	12	4.3	4.3	94.7
STUDENT T DIRECTOR	6.	1	0.4	0.4	95.0
DEAN OF EDUCATION	7.	3	1.1	1.1	96.1
INSTRUCTOR	8.	10	3.5	3.5	99.6
SECONDARY EDUCATION	9.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

H NUMBER OF FACULTY RECOMMENDATIONS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	149	52.8	52.8	52.8
	1.	54	19.1	19.1	72.0
	2.	21	7.4	7.4	79.4
	3.	44	15.6	15.6	95.0
	4.	11	3.9	3.9	98.9
	5.	3	1.1	1.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

I HAVE OTHER ADMISSION CRITERIA

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	160	56.7	56.7	56.7
YES	1.	122	43.3	43.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

J CAN ELEMENTARY ED STUDENT MAJOR IN MATH?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	73	25.9	25.9	25.9
YES	1.	209	74.1	74.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

K NO. OF ELEM. MATH MAJORS GRADUATE A YEAR

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	121	43	43	9.	1	0	80	50.	1	0	96
0.	1	0	43	10.	19	7	87	51.	1	0	96
1.	19	7	50	12.	2	1	87	75.	1	0	96
2.	20	7	57	15.	5	2	89	80.	1	0	97
3.	18	6	63	17.	1	0	89	150.	1	0	97
4.	13	5	68	20.	6	2	91	160.	1	0	98
5.	20	7	75	22.	1	0	92	200.	4	1	99
6.	7	2	78	25.	2	1	93	300.	1	0	99
7.	2	1	78	30.	6	2	95	390.	1	0	100
8.	3	1	79	40.	2	1	95	600.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

L CONTENT1 FOR ELEM MATH MAJORS NOT OTHERS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	100	35	35	12.	1	0	79	27.	2	1	93
1.	22	8	43	14.	1	0	79	29.	3	1	94
2.	4	1	45	15.	4	1	80	33.	1	0	95
3.	2	1	45	16.	2	1	81	34.	2	1	95
4.	3	1	46	18.	17	6	87	35.	2	1	96
5.	10	4	50	19.	2	1	88	36.	1	0	96
6.	1	0	50	20.	1	0	88	39.	1	0	97
7.	7	2	53	21.	1	0	89	40.	5	2	99
8.	24	9	61	22.	1	0	89	41.	3	1	100
9.	1	0	62	24.	3	1	90	42.	1	0	100
10.	39	14	76	25.	1	0	90				
11.	8	3	78	26.	6	2	93				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

M UNIT VALUE FOR CONTENT COURSE 1

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	122	43.3	43.3	43.3
	2.	3	1.1	1.1	44.3
	3.	76	27.0	27.0	71.3
	4.	29	10.3	10.3	81.6
	5.	11	3.9	3.9	85.5
	6.	8	2.8	2.8	88.3
	7.	2	0.7	0.7	89.0
	8.	8	2.8	2.8	91.8
	9.	3	1.1	1.1	92.9
	10.	4	1.4	1.4	94.3
	11.	2	0.7	0.7	95.0
	12.	7	2.5	2.5	97.5
	13.	1	0.4	0.4	97.9
	15.	3	1.1	1.1	98.9
	19.	1	0.4	0.4	99.3
	24.	1	0.4	0.4	99.6
	33.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

N CONTENT2 FOR ELEM MATH MAJORS NOT OTHERS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	142	50	50	11.	6	2	80	25.	1	0	93
1.	13	5	55	12.	10	4	83	26.	1	0	93
2.	7	2	57	14.	4	1	85	27.	2	1	94
3.	3	1	59	15.	1	0	85	29.	5	2	96
4.	3	1	60	16.	2	1	86	30.	2	1	96
5.	10	4	63	17.	5	2	88	31.	2	1	97
6.	1	0	63	18.	6	2	90	34.	3	1	98
7.	11	4	67	19.	4	1	91	35.	1	0	99
8.	5	2	69	20.	1	0	91	36.	1	0	99
9.	2	1	70	22.	2	1	92	40.	2	1	100
10.	22	8	78	23.	1	0	93	43.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

0 UNIT VALUE FOR CONTENT COURSE 2

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	149	52.8	52.8	52.8
	1.	2	0.7	0.7	53.5
	2.	3	1.1	1.1	54.6
	3.	80	28.4	28.4	83.0
	4.	21	7.4	7.4	90.4
	5.	13	4.6	4.6	95.0
	6.	4	1.4	1.4	96.5
	8.	6	2.1	2.1	98.6
	10.	2	0.7	0.7	99.3
	11.	1	0.4	0.4	99.6
	12.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

P CONTENTS FOR ELEM MATH MAJORS NOT OTHERS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	160	57	57	10.	15	5	78	20.	4	1	96
1.	1	0	57	11.	1	0	78	26.	2	1	97
2.	3	1	58	12.	6	2	80	31.	2	1	98
3.	9	3	61	13.	1	0	81	32.	1	0	98
4.	3	1	62	14.	2	1	82	34.	2	1	99
5.	14	5	67	15.	3	1	83	36.	2	1	99
7.	2	1	68	16.	25	9	91	37.	2	1	100
8.	12	4	72	17.	2	1	92				
9.	1	0	73	19.	7	2	95				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

0 UNIT VALUE FOR CONTENT COURSE 3

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	167	59.2	59.2	59.2
	1.	2	0.7	0.7	59.9
	2.	3	1.1	1.1	61.0
	3.	69	24.5	24.5	85.5
	4.	20	7.1	7.1	92.6
	5.	6	2.1	2.1	94.7
	6.	4	1.4	1.4	96.1
	8.	3	1.1	1.1	97.2
	11.	2	0.7	0.7	97.9
	12.	3	1.1	1.1	98.9
	15.	1	0.4	0.4	99.3
	16.	1	0.4	0.4	99.6
	24.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

R CONTENT4 FOR ELEM MATH MAJORS NOT OTHERS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	222	79	79	10.	1	0	88	22.	2	1	98
1.	2	1	79	11.	2	1	88	23.	1	0	99
3.	4	1	81	12.	3	1	89	28.	1	0	99
4.	2	1	82	14.	1	0	90	32.	1	0	99
5.	4	1	83	15.	6	2	92	36.	1	0	100
7.	4	1	84	16.	6	2	94	39.	1	0	100
8.	7	2	87	17.	6	2	96				
9.	1	0	87	19.	4	1	98				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

S UNIT VALUE FOR CONTENT COURSE 4

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	222	78.7	78.7	78.7
	1.	1	0.4	0.4	79.1
	2.	2	0.7	0.7	79.8
	3.	29	10.3	10.3	90.1
	4.	12	4.3	4.3	94.3
	5.	3	1.1	1.1	95.4
	6.	3	1.1	1.1	96.5
	7.	1	0.4	0.4	96.8
	8.	1	0.4	0.4	97.2
	9.	2	0.7	0.7	97.9
	11.	1	0.4	0.4	98.2
	12.	3	1.1	1.1	99.3
	13.	1	0.4	0.4	99.6
	18.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

T OTHER CONTENT COURSE OF SAME VARIETY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	243	86.2	86.2	86.2
	1.	1	0.4	0.4	86.5
	5.	1	0.4	0.4	86.9
	8.	11	3.9	3.9	90.8
	14.	1	0.4	0.4	91.1
	16.	23	8.2	8.2	99.3
	38.	2	0.7	0.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

U UNIT VALUE OF OTHER CONTENT COURSE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	253	89.7	89.7	89.7
	2.	1	0.4	0.4	90.1
	3.	4	1.4	1.4	91.5
	4.	1	0.4	0.4	91.8
	5.	2	0.7	0.7	92.6
	6.	8	2.8	2.8	95.4
	7.	1	0.4	0.4	95.7
	8.	2	0.7	0.7	96.5
	9.	1	0.4	0.4	96.8
	10.	1	0.4	0.4	97.2
	12.	2	0.7	0.7	97.9
	13.	1	0.4	0.4	98.2
	15.	1	0.4	0.4	98.6
	16.	1	0.4	0.4	98.9
	18.	1	0.4	0.4	99.3
	19.	1	0.4	0.4	99.6
	22.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

V METHODS1 FOR ELEM MATH MAJORS NOT OTHERS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	131	46.5	46.5	46.5
	1.	114	40.4	40.4	86.9
	2.	1	0.4	0.4	87.2
	3.	7	2.5	2.5	89.7
	4.	7	2.5	2.5	92.2
	5.	1	0.4	0.4	92.6
	6.	1	0.4	0.4	92.9
	9.	2	0.7	0.7	93.6
	10.	2	0.7	0.7	94.3
	11.	2	0.7	0.7	95.0
	12.	1	0.4	0.4	95.4
	14.	2	0.7	0.7	96.1
	16.	1	0.4	0.4	96.5
	17.	2	0.7	0.7	97.2
	18.	2	0.7	0.7	97.9
	19.	2	0.7	0.7	98.6
	20.	2	0.7	0.7	99.3
	21.	2	0.7	0.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

W UNIT VALUE FOR METHODS COURSE 1

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	244	86.5	86.5	86.5
	2.	8	2.8	2.8	89.4
	3.	22	7.8	7.8	97.2
	4.	4	1.4	1.4	98.6
	5.	2	0.7	0.7	99.3
	6.	2	0.7	0.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

X METHODS2 FOR ELEM MATH MAJORS NOT OTHERS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	271	96.1	96.1	96.1
	3.	2	0.7	0.7	96.8
	6.	1	0.4	0.4	97.2
	9.	1	0.4	0.4	97.5
	10.	1	0.4	0.4	97.9
	12.	1	0.4	0.4	98.2
	13.	1	0.4	0.4	98.6
	14.	1	0.4	0.4	98.9
	15.	1	0.4	0.4	99.3
	18.	1	0.4	0.4	99.6
	22.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

Y UNIT VALUE FOR METHODS COURSE 2

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	272	96.5	96.5	96.5
	2.	1	0.4	0.4	96.8
	3.	7	2.5	2.5	99.3
	4.	1	0.4	0.4	99.6
	15.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

Z DO YOU HAVE A THIRD SUCH METHODS COURSE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	278	98.6	98.6	98.6
YES	1.	4	1.4	1.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AA DO YOU HAVE A FOURTH METHODS COURSE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	278	98.6	98.6	98.6
YES	1.	4	1.4	1.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AB INSTITUTIONAL ORGANIZATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	4	1.4	1.4	1.4
SEMESTER SYSTEM	1.	202	71.6	71.6	73.0
TRIMESTER SYSTEM	2.	8	2.8	2.8	75.9
QUARTER SYSTEM	3.	68	24.1	24.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AC CONTENT CREDIT HRS REQ OF ALL EE MAJORS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	0.	23	8.2	8.2	8.2
	1.	2	0.7	0.7	8.9
	2.	1	0.4	0.4	9.2
	3.	47	16.7	16.7	25.9
	4.	31	11.0	11.0	36.9
	5.	7	2.5	2.5	39.4
	6.	84	29.8	29.8	69.1
	7.	3	1.1	1.1	70.2
	8.	19	6.7	6.7	77.0
	9.	31	11.0	11.0	87.9
	10.	17	6.0	6.0	94.0
	11.	1	0.4	0.4	94.3
	12.	13	4.6	4.6	98.9
	13.	1	0.4	0.4	99.3
	15.	1	0.4	0.4	99.6
	18.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AD REQUIRED MATH CONTENT BEFORE METHODS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	91	32.3	32.3	32.3
YES	1.	191	67.7	67.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

A5 REQ MATH CONTENT CONCURRENT WITH METHODS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	193	68.4	68.4	68.4
YES	1.	89	31.6	31.6	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AF NO REQUIRED TIMING OF CONTENT-METHODS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	224	79.4	79.4	79.4
YES	1.	58	20.6	20.6	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AG STATUS OF COURSE WITH ARITH FUNCTIONS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	6	2.1	2.1	2.1
NOT STUDIED	1.	1	0.4	0.4	2.5
RECOMMENDED	2.	24	8.5	8.5	11.0
REQUIRED	3.	251	89.0	89.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AH STATUS OF COURSE CONTAINING ALGEBRA

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	13	4.6	4.6	4.6
NOT STUDIED	1.	9	3.2	3.2	7.8
RECOMMENDED	2.	33	11.7	11.7	19.5
REQUIRED	3.	227	80.5	80.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

A1 STATUS OF COURSE CONTAINING GEOMETRY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	19	6.7	6.7	6.7
NOT STUDIED	1.	12	4.3	4.3	11.0
RECOMMENDED	2.	59	20.9	20.9	31.9
REQUIRED	3.	192	68.1	68.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AJ STATUS OF COURSE WITH PROB. AND STATS.

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	26	9.2	9.2	9.2
NOT STUDIED	1.	50	17.7	17.7	27.0
RECOMMENDED	2.	103	36.5	36.5	63.5
REQUIRED	3.	103	36.5	36.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AK STATUS OF COURSE WITH COORD GEOM-VECTORS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	34	12.1	12.1	12.1
NOT STUDIED	1.	116	41.1	41.1	53.2
RECOMMENDED	2.	83	29.4	29.4	82.6
REQUIRED	3.	49	17.4	17.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AL STATUS OF COURSE WITH COMPUTER USE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	41	14.5	14.5	14.5
NOT STUDIED	1.	143	50.7	50.7	65.2
RECOMMENDED	2.	83	29.4	29.4	94.7
REQUIRED	3.	15	5.3	5.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AM STATUS OF COURSE WITH CALCULATOR MATH

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	47	16.7	16.7	16.7
NOT STUDIED	1.	129	45.7	45.7	62.4
RECOMMENDED	2.	74	26.2	26.2	88.7
REQUIRED	3.	32	11.3	11.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AN OTHER COURSE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	234	83.0	83.0	83.0
YES	1.	48	17.0	17.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AD MATH CONTENT COURSE1 FOR ALL ED STUDENTS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	32	11	11	14.	4	1	80	31.	3	1	94
1.	52	18	30	15.	7	2	83	32.	2	1	95
2.	7	2	32	16.	3	1	84	33.	2	1	96
3.	13	5	37	17.	3	1	85	35.	1	0	96
4.	48	17	54	18.	2	1	85	36.	2	1	97
5.	20	7	61	20.	9	3	89	37.	1	0	97
6.	7	2	63	22.	1	0	89	38.	1	0	99
7.	1	0	64	23.	1	0	89	39.	1	0	98
8.	1	0	64	24.	1	0	90	40.	1	0	98
9.	5	2	66	25.	1	0	90	41.	1	0	99
10.	2	1	67	26.	1	0	90	42.	1	0	99
11.	22	8	74	27.	3	1	91	43.	2	1	100
12.	2	1	75	29.	1	0	92	44.	1	0	100
13.	10	4	79	30.	4	1	93				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AP TEXTBOOK USED IN MATH CONTENT COURSE 1

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	158	56	56	20.	3	1	79	41.	1	0	93
1.	2	1	57	21.	1	0	79	42.	1	0	93
2.	1	0	57	22.	2	1	80	43.	1	0	93
3.	3	1	58	24.	1	0	80	44.	1	0	94
4.	2	1	59	25.	3	1	81	45.	1	0	94
5.	2	1	60	26.	1	0	82	46.	1	0	94
6.	1	0	60	27.	1	0	82	47.	1	0	95
7.	7	2	62	28.	1	0	82	48.	2	1	95
8.	2	1	63	29.	2	1	83	50.	2	1	96
9.	9	3	66	31.	1	0	83	51.	1	0	96
10.	15	5	72	32.	2	1	84	52.	1	0	97
11.	2	1	72	33.	2	1	85	53.	1	0	97
12.	1	0	73	34.	1	0	85	54.	2	1	98
13.	1	0	73	35.	1	0	85	55.	1	0	98
14.	5	2	75	36.	2	1	86	56.	1	0	99
15.	2	1	76	37.	3	1	87	58.	1	0	99
16.	1	0	76	38.	7	2	90	59.	1	0	99
17.	2	1	77	39.	4	1	91	60.	1	0	100
19.	3	1	78	40.	3	1	92	63.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

A0 UNIT VALUE FOR MATH CONTENT COURSE 1

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	98	34.8	34.8	34.8
	1.	5	1.8	1.8	36.5
	2.	3	1.1	1.1	37.6
	3.	112	39.7	39.7	77.3
	4.	29	10.3	10.3	87.6
	5.	14	5.0	5.0	92.6
	6.	11	3.9	3.9	96.5
	8.	4	1.4	1.4	97.9
	9.	5	1.8	1.8	99.6
	10.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

A9 ARE INSTRUCTOR-MADE MATERIALS USED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	203	72.0	72.0	72.0
YES	1.	79	28.0	28.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AS MATH CONTENT COURSE2 FOR ALL ED STUDENTS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	191	68	68	15.	2	1	88	30.	2	1	96
1.	20	7	75	16.	1	0	89	31.	2	1	97
2.	7	2	77	17.	4	1	90	32.	1	0	97
3.	6	2	79	18.	1	0	90	33.	1	0	98
5.	6	2	82	19.	1	0	91	34.	2	1	98
6.	4	1	83	20.	2	1	91	36.	1	0	99
9.	2	1	84	21.	6	2	94	37.	1	0	99
11.	7	2	86	22.	1	0	94	41.	2	1	100
13.	3	1	87	28.	1	0	94	43.	1	0	100
14.	1	0	88	29.	3	1	95				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AT TEXTBOOK USED IN MATH CONTENT COURSE 2

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	233	83	83	18.	1	0	91	41.	1	0	98
3.	3	1	84	22.	2	1	91	45.	1	0	98
4.	1	0	84	23.	1	0	92	46.	1	0	98
6.	1	0	84	25.	1	0	92	49.	1	0	99
7.	2	1	85	32.	1	0	93	57.	1	0	99
8.	1	0	85	33.	1	0	93	61.	1	0	99
9.	2	1	86	36.	1	0	93	62.	1	0	100
10.	9	3	89	38.	6	2	95	64.	1	0	100
14.	1	0	90	39.	3	1	96				
15.	2	1	90	40.	2	1	97				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AU UNIT VALUE FOR MATH CONTENT COURSE 2

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	197	69.9	69.9	69.9
	1.	3	1.1	1.1	70.9
	2.	2	0.7	0.7	71.6
	3.	65	23.0	23.0	94.7
	4.	4	1.4	1.4	96.1
	5.	10	3.5	3.5	99.6
	6.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AV INSTRUCTOR-CONSTUCTED MATERIALS USED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	245	86.9	86.9	86.9
YES	1.	37	13.1	13.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AW METHODS CREDIT HRS REQ OF ALL EE MAJORS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	0.	30	10.6	10.6	10.6
	1.	5	1.8	1.8	12.4
	2.	54	19.1	19.1	31.6
	3.	144	51.1	51.1	82.6
	4.	21	7.4	7.4	90.1
	5.	10	3.5	3.5	93.6
	6.	7	2.5	2.5	96.1
	8.	6	2.1	2.1	98.2
	9.	5	1.8	1.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AX ATTRIBUTE BLOCKS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	85	30.1	30.1	30.1
YES	1.	197	69.9	69.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AY ATTRIBUTE BLOCKS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	147	52.1	52.1	52.1
	1.	66	23.4	23.4	75.5
	2.	39	13.8	13.8	89.4
	3.	13	4.6	4.6	94.0
	4.	6	2.1	2.1	96.1
	5.	4	1.4	1.4	97.5
	6.	3	1.1	1.1	98.6
	8.	1	0.4	0.4	98.9
	10.	1	0.4	0.4	99.3
	15.	2	0.7	0.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

AZ ATTRIBUTE BLOCKS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	168	59.6	59.6	59.6
YES	1.	114	40.4	40.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BA ATTRIBUTE BLOCKS: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	230	81.6	81.6	81.6
	1.	41	14.5	14.5	96.1
	2.	8	2.8	2.8	98.9
	3.	1	0.4	0.4	99.3
	8.	1	0.4	0.4	99.6
	10.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BB GEOMETRIC SHAPES: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	67	23.8	23.8	23.8
YES	1.	215	76.2	76.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BC GEOMETRIC SHAPES: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	143	50.7	50.7	50.7
	1.	61	21.6	21.6	72.3
	2.	40	14.2	14.2	86.5
	3.	14	5.0	5.0	91.5
	4.	10	3.5	3.5	95.0
	5.	4	1.4	1.4	96.5
	6.	7	2.5	2.5	98.9
	8.	1	0.4	0.4	99.3
	10.	1	0.4	0.4	99.6
	40.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

8D GEOMETRIC SHAPES: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	168	59.6	59.6	59.6
YES	1.	114	40.4	40.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BE GEOMETRIC SHAPES: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	233	82.6	82.6	82.6
	1.	34	12.1	12.1	94.7
	2.	8	2.8	2.8	97.5
	3.	3	1.1	1.1	98.6
	4.	2	0.7	0.7	99.3
	5.	1	0.4	0.4	99.6
	6.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BF PLACE VALUE MATERIALS: HANDS-ON EXP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	68	24.1	24.1	24.1
YES	1.	214	75.9	75.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

PV MATERIALS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	125	44.3	44.3	44.3
	1.	48	17.0	17.0	61.3
	2.	35	12.4	12.4	73.8
	3.	24	8.5	8.5	82.3
	4.	17	6.0	6.0	88.3
	5.	7	2.5	2.5	90.8
	6.	15	5.3	5.3	96.1
	7.	1	0.4	0.4	96.5
	8.	1	0.4	0.4	96.8
	9.	1	0.4	0.4	97.2
	10.	3	1.1	1.1	98.2
	12.	5	1.8	1.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

8H PLACE VALUE MATERIALS: USE DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	155	55.0	55.0	55.0
YES	1.	127	45.0	45.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

81 PV MATERIALS: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	204	72.3	72.3	72.3
	1.	33	11.7	11.7	84.0
	2.	24	8.5	8.5	92.6
	3.	8	2.8	2.8	95.4
	4.	4	1.4	1.4	96.8
	5.	4	1.4	1.4	98.2
	6.	1	0.4	0.4	98.6
	8.	1	0.4	0.4	98.9
	10.	3	1.1	1.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BJ GEOBOARD:HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	60	21.3	21.3	21.3
YES	1.	222	78.7	78.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BK GEOBOARD: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	134	47.5	47.5	47.5
	1.	69	24.5	24.5	72.0
	2.	37	13.1	13.1	85.1
	3.	21	7.4	7.4	92.6
	4.	9	3.2	3.2	95.7
	5.	7	2.5	2.5	98.2
	6.	4	1.4	1.4	99.6
	20.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

BL GEOBOARD: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	164	58.2	58.2	58.2
YES	1.	118	41.8	41.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BM GEOBOARD: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	231	81.9	81.9	81.9
	1.	38	13.5	13.5	95.4
	2.	11	3.9	3.9	99.3
	4.	1	0.4	0.4	99.6
	5.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BN COUNTING MATERIALS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	78	27.7	27.7	27.7
YES	1.	204	72.3	72.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

80 COUNTING MATERIALS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	150	53.2	53.2	53.2
	1.	68	24.1	24.1	77.3
	2.	30	10.6	10.6	87.9
	3.	15	5.3	5.3	93.3
	4.	10	3.5	3.5	96.8
	5.	4	1.4	1.4	98.2
	6.	3	1.1	1.1	99.3
	20.	1	0.4	0.4	99.6
	40.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BP COUNTING MATERIALS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	171	60.6	60.6	60.6
YES	1.	111	39.4	39.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

B0 COUNTING MATERIALS: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	226	80.1	80.1	80.1
	1.	28	9.9	9.9	90.1
	2.	11	3.9	3.9	94.0
	3.	9	3.2	3.2	97.2
	4.	3	1.1	1.1	98.2
	5.	1	0.4	0.4	98.6
	6.	2	0.7	0.7	99.3
	7.	1	0.4	0.4	99.6
	8.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BR COLORED RODS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	67	23.8	23.8	23.8
YES	1.	215	76.2	76.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BS COLORED RODS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	133	47.2	47.2	47.2
	1.	50	17.7	17.7	64.9
	2.	46	16.3	16.3	81.2
	3.	18	6.4	6.4	87.6
	4.	16	5.7	5.7	93.3
	5.	8	2.8	2.8	96.1
	6.	4	1.4	1.4	97.5
	8.	3	1.1	1.1	98.6
	10.	2	0.7	0.7	99.3
	25.	2	0.7	0.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BT COLORED RODS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	167	59.2	59.2	59.2
YES	1.	115	40.8	40.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BU COLORED RODS: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	221	78.4	78.4	78.4
	1.	37	13.1	13.1	91.5
	2.	16	5.7	5.7	97.2
	3.	5	1.8	1.8	98.9
	5.	1	0.4	0.4	99.3
	6.	2	0.7	0.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BY ABACUS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	122	43.3	43.3	43.3
YES	1.	160	56.7	56.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BW ABACUS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	190	67.4	67.4	67.4
	1.	53	18.8	18.8	86.2
	2.	24	8.5	8.5	94.7
	3.	6	2.1	2.1	96.8
	4.	5	1.8	1.8	98.6
	5.	2	0.7	0.7	99.3
	8.	1	0.4	0.4	99.6
	9.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BX ABACUS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	161	57.1	57.1	57.1
YES	1.	121	42.9	42.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GX ABACUS: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	222	78.7	78.7	78.7
	1.	52	18.4	18.4	97.2
	2.	5	1.8	1.8	98.9
	3.	2	0.7	0.7	99.6
	6.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

BZ HAND-HELD CALCULATOR: HANDS-ON EXP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	180	63.8	63.8	63.8
YES	1.	102	36.2	36.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CA HAND-HELD CALCULATOR: HANDS-ON CLOCK HRS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	213	75.5	75.5	75.5
	1.	32	11.3	11.3	86.9
	2.	21	7.4	7.4	94.3
	3.	8	2.8	2.8	97.2
	4.	4	1.4	1.4	98.6
	5.	1	0.4	0.4	98.9
	6.	2	0.7	0.7	99.6
	40.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

C8 HAND-HELD CALCULATOR: USE DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	214	75.9	75.9	75.9
YES	1.	68	24.1	24.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CC HAND-HELD CALCULATOR: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	242	85.8	85.8	85.8
	1.	30	10.6	10.6	96.5
	2.	7	2.5	2.5	98.9
	3.	1	0.4	0.4	99.3
	4.	1	0.4	0.4	99.6
	8.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CD COMPUTER: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	250	88.7	88.7	88.7
YES	1.	32	11.3	11.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CE COMPUTER: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	263	93.3	93.3	93.3
	1.	6	2.1	2.1	95.4
	2.	6	2.1	2.1	97.5
	3.	2	0.7	0.7	98.2
	6.	3	1.1	1.1	99.3
	8.	1	0.4	0.4	99.6
	20.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CF COMPUTER: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	260	92.2	92.2	92.2
YES	1.	22	7.8	7.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CG COMPUTER: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	269	95.4	95.4	95.4
	1.	9	3.2	3.2	98.6
	2.	4	1.4	1.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CH FILMSTRIPS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	195	69.1	69.1	69.1
YES	1.	87	30.9	30.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SUPVEY

C1 FILMSTRIPS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	234	83.0	83.0	83.0
	1.	16	5.7	5.7	88.7
	2.	15	5.3	5.3	94.0
	3.	2	0.7	0.7	94.7
	4.	6	2.1	2.1	96.8
	5.	3	1.1	1.1	97.9
	6.	1	0.4	0.4	98.2
	10.	4	1.4	1.4	99.6
	12.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CJ [illegible] IPS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	200	70.9	70.9	70.9
YES	1.	82	29.1	29.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CK FILMSTRIPS: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	231	81.9	81.9	81.9
	1.	30	10.6	10.6	92.6
	2.	11	3.9	3.9	96.5
	3.	5	1.8	1.8	98.2
	4.	3	1.1	1.1	99.3
	6.	1	0.4	0.4	99.6
	8.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

C1 OVERHEAD TRANSPARENCIES: HANDS-ON EXP

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	190	67.4	67.4	67.4
YES	1.	92	32.6	32.6	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CM OH TRANSPARENCIES: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	231	81.9	81.9	81.9
	1.	23	8.2	8.2	90.1
	2.	10	3.5	3.5	93.6
	3.	5	1.8	1.8	95.4
	4.	4	1.4	1.4	96.8
	5.	4	1.4	1.4	98.2
	8.	2	0.7	0.7	98.9
	10.	1	0.4	0.4	99.3
	12.	1	0.4	0.4	99.6
	15.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CN OVERHEAD TRANSPARENCIES: DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	163	57.8	57.8	57.8
YES	1.	119	42.2	42.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CO CH TRANSPARENCIES: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	213	75.5	75.5	75.5
	1.	29	10.3	10.3	85.8
	2.	15	5.3	5.3	91.1
	3.	8	2.8	2.8	94.0
	4.	3	1.1	1.1	95.0
	5.	3	1.1	1.1	96.1
	6.	2	0.7	0.7	96.8
	8.	1	0.4	0.4	97.2
	10.	5	1.8	1.8	98.9
	12.	1	0.4	0.4	99.3
	21.	1	0.4	0.4	99.6
	30.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CP COMPUTATION GAMES: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	109	38.7	38.7	38.7
YES	1.	173	61.3	61.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CQ COMPUTATION GAMES: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	165	58.5	58.5	58.5
	1.	30	10.6	10.6	69.1
	2.	26	9.2	9.2	78.4
	3.	27	9.6	9.6	87.9
	4.	16	5.7	5.7	93.6
	5.	8	2.8	2.8	96.5
	6.	4	1.4	1.4	97.9
	8.	2	0.7	0.7	98.6
	10.	4	1.4	1.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CR COMPUTATION GAMES: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	203	72.0	72.0	72.0
YES	1.	79	28.0	28.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CS COMPUTATION GAMES: DEMO CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	233	82.6	82.6	82.6
	1.	21	7.4	7.4	90.1
	2.	15	5.3	5.3	95.4
	3.	5	1.8	1.8	97.2
	4.	4	1.4	1.4	98.6
	5.	2	0.7	0.7	99.3
	6.	1	0.4	0.4	99.6
	10.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CT FILMS: HANDS-ON EXPERIENCE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	214	75.9	75.9	75.9
YES	1.	68	24.1	24.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CU FILMS: HANDS-ON CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	246	87.2	87.2	87.2
	1.	12	4.3	4.3	91.5
	2.	13	4.6	4.6	96.1
	3.	7	2.5	2.5	98.6
	5.	3	1.1	1.1	99.6
	10.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CV FILMS: USE IS DEMONSTRATED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	200	70.9	70.9	70.9
YES	1.	82	29.1	29.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CW FILMS: DEMONSTRATION CLOCK HOURS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	224	79.4	79.4	79.4
	1.	32	11.3	11.3	90.8
	2.	10	3.5	3.5	94.3
	3.	8	2.8	2.8	97.2
	4.	2	0.7	0.7	97.9
	5.	3	1.1	1.1	98.9
	6.	3	1.1	1.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CX OTHER NONPRINT MATERIAL AVAILABLE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	165	58.5	58.5	58.5
YES	1.	117	41.5	41.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CY ORIGINAL MATHEMATICAL GAME REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	120	42.6	42.6	42.6
YES	1.	162	57.4	57.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CZ SUMMARIES OF JOURNAL ARTICLES REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	112	39.7	39.7	39.7
YES	1.	170	60.3	60.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DA BOOK CRITIQUES REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	212	75.2	75.2	75.2
YES	1.	70	24.8	24.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

D9 SELFCONTAINED LEARNING PACKAGE REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	173	61.3	61.3	61.3
YES	1.	109	38.7	38.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DC ORIGINAL DISCOVERY ACTIVITY REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	132	46.8	46.8	46.8
YES	1.	150	53.2	53.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DD RESOURCE OR IDEA FILE REQUIRED?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	94	33.3	33.3	33.3
YES	1.	188	66.7	66.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DE ARE THERE OTHER REQUIREMENTS?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	152	53.9	53.9	53.9
YES	1.	130	46.1	46.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DF EMPHASIS ON LEARNING THEORIES

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	18	6.4	6.4	6.4
LITTLE	1.	64	22.7	22.7	29.1
MODERATE	2.	152	53.9	53.9	83.0
EXTENSIVE	3.	48	17.0	17.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DG EMPHASIS ON LESSON PLANNING

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	23	8.2	8.2	8.2
LITTLE	1.	43	15.2	15.2	23.4
MODERATE	2.	123	43.6	43.6	67.0
EXTENSIVE	3.	93	33.0	33.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

OH EMPHASIS ON TEST ITEM CONSTRUCTION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	50	17.7	17.7	17.7
LITTLE	1.	106	37.6	37.6	55.3
MODERATE	2.	104	36.9	36.9	92.2
EXTENSIVE	3.	22	7.8	7.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

D1 EMPHASIS ON MANIPULATIVES-LABS IN MATH

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	15	5.3	5.3	5.3
LITTLE	1.	10	3.5	3.5	8.9
MODERATE	2.	80	28.4	28.4	37.2
EXTENSIVE	3.	177	62.8	62.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DJ EMPHASIS ON MEDIA

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	27	9.6	9.6	9.6
LITTLE	1.	72	25.5	25.5	35.1
MODERATE	2.	116	41.1	41.1	76.2
EXTENSIVE	3.	67	23.8	23.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DK EMPHASIS ON USE OF COMPUTERS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	187	66.3	66.3	66.3
LITTLE	1.	75	26.6	26.6	92.9
MODERATE	2.	16	5.7	5.7	98.6
EXTENSIVE	3.	4	1.4	1.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

OL EMPHASIS ON USE OF CALCULATORS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	88	31.2	31.2	31.2
LITTLE	1.	120	42.6	42.6	73.8
MODERATE	2.	65	23.0	23.0	96.8
EXTENSIVE	3.	9	3.2	3.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

OM EMPHASIS ON EXPOSURE TO NCTM ACTIVITIES

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	19	6.7	6.7	6.7
LITTLE	1.	63	22.3	22.3	29.1
MODERATE	2.	113	40.1	40.1	69.1
EXTENSIVE	3.	87	30.9	30.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

ON EMPHASIS ON EXPOSURE TO STATE-LOCAL ORGS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	57	20.2	20.2	20.2
LITTLE	1.	113	40.1	40.1	60.3
MODERATE	2.	80	28.4	28.4	88.7
EXTENSIVE	3.	32	11.3	11.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DO EMPHASIS ON PROBLEMS IN SPECIAL ED.

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	76	27.0	27.0	27.0
LITTLE	1.	99	35.1	35.1	62.1
MODERATE	2.	89	31.6	31.6	93.6
EXTENSIVE	3.	18	6.4	6.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

OP EMPHASIS ON PROBLEMS IN URBAN EDUCATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	128	45.4	45.4	45.4
LITTLE	1.	94	33.3	33.3	78.7
MODERATE	2.	51	18.1	18.1	96.8
EXTENSIVE	3.	9	3.2	3.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DQ EMPHASIS ON PROBLEMS IN CAREER ED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	143	50.7	50.7	50.7
LITTLE	1.	86	30.5	30.5	81.2
MODERATE	2.	48	17.0	17.0	98.2
EXTENSIVE	3.	5	1.8	1.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DR EMPHASIS ON PROBLEMS WITH SLOW-GIFTED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	46	16.3	16.3	16.3
LITTLE	1.	66	23.4	23.4	39.7
MODERATE	2.	133	47.2	47.2	86.9
EXTENSIVE	3.	37	13.1	13.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DS EMPHASIS ON PROBLEMS IN INDIV INSTRUCT

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	25	8.9	8.9	8.9
LITTLE	1.	37	13.1	13.1	22.0
MODERATE	2.	126	44.7	44.7	66.7
EXTENSIVE	3.	94	33.3	33.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SUPVEY

OT EMPHASIS ON ANALYSIS OF VIDEO TAPES

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	154	54.6	54.6	54.6
LITTLE	1.	72	25.5	25.5	80.1
MODERATE	2.	44	15.6	15.6	95.7
EXTENSIVE	3.	12	4.3	4.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DU EMPHASIS ON PENCIL-PAPER SIMULATIONS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	-0.	92	32.6	32.6	32.6
LITTLE	1.	77	27.3	27.3	59.9
MODERATE	2.	95	33.7	33.7	93.6
EXTENSIVE	3.	18	6.4	6.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DV EMPHASIS ON MICRO-TEACHING TO PEERS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	110	39.0	39.0	39.0
LITTLE	1.	65	23.0	23.0	62.1
MODERATE	2.	73	25.9	25.9	87.9
EXTENSIVE	3.	34	12.1	12.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DW OTHER EMPHASIZED TOPICS?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	215	76.2	76.2	76.2
YES	1.	67	23.8	23.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DX COURSE STATUS: DYNAMICS OF GROUP LEARN

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	-0.	126	44.7	44.7	44.7
RECOMMENDED	1.	53	18.8	18.8	63.5
REQUIRED	2.	103	36.5	36.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

DY COURSE STATUS: ED PSYCH STATISTICS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	-0.	116	41.1	41.1	41.1
RECOMMENDED	1.	45	16.0	16.0	57.1
REQUIRED	2.	121	42.9	42.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

D2 COURSE STATUS: PHILOSOPHY OF EDUCATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	-0.	84	29.8	29.8	29.8
RECOMMENDED	1.	31	11.0	11.0	40.8
REQUIRED	2.	167	59.2	59.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EA COURSE STATUS: SOCIOLOGY OF EDUCATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	-0.	121	42.9	42.9	42.9
RECOMMENDED	1.	47	16.7	16.7	59.6
REQUIRED	2.	114	40.4	40.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FB COURSE STATUS: THEORIES OF LEARNING

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	-0.	55	19.5	19.5	19.5
RECOMMENDED	1.	47	16.7	16.7	36.2
REQUIRED	2.	180	63.8	63.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EC COURSE STATUS: HISTORY OF EDUCATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NOT SUGGESTED	-0.	102	36.2	36.2	36.2
RECOMMENDED	1.	44	15.6	15.6	51.8
REQUIRED	2.	136	48.2	48.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

ED OBSERVATION IS A REQUIRED FIELD ACTIVITY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	68	24.1	24.1	24.1
YES	1.	214	75.9	75.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EE REQUIRED FIELD ACTIVITY: 1-1 TUTORING?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	108	38.3	38.3	38.3
YES	1.	174	61.7	61.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FF REQ. FIELD ACT.: SMALL GROUP INSTRUCTION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	101	35.8	35.8	35.8
YES	1.	181	64.2	64.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EG ARE THERE OTHERS?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	196	69.5	69.5	69.5
YES	1.	86	30.5	30.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EH OBSERVATION: CLOCK HOURS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	127	45	45	12.	6	2	79	45.	1	0	97
1.	7	2	48	15.	11	4	83	50.	1	0	97
2.	18	6	54	16.	2	0	83	60.	2	1	98
3.	19	7	61	18.	3	1	84	75.	2	1	99
4.	7	2	63	20.	12	4	89	80.	2	1	99
5.	16	6	69	24.	2	0	89	84.	1	0	100
6.	2	1	70	30.	11	4	93	98.	1	0	100
8.	3	1	71	34.	2	0	93				
10.	19	7	77	40.	11	4	96				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

E1 OBSERVATION: GRADE LEVELS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	138	48.9	48.9	48.9
K-3	1.	2	0.7	0.7	49.6
4-8	2.	99	35.1	35.1	84.8
OTHER MIX OF K-8	3.	43	15.2	15.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FJ OBSERVATION: SUPERVISED BY GRAD STUDENT

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	267	94.7	94.7	94.7
YES	1.	15	5.3	5.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EK OBSERVATION: SUPERVISED BY COLL FACULTY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	149	52.8	52.8	52.8
YES	1.	133	47.2	47.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FL OBSERVATION: SUPERVISED BY SCHOOL FAC

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	140	49.6	49.6	49.6
YES	1.	142	50.4	50.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EM 1-1 TUTORING: CLOCK HOURS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	167	59	59	8.	2	1	78	30.	3	1	98
1.	6	2	61	10.	21	7	85	32.	2	1	98
2.	13	5	66	12.	7	2	88	40.	2	1	99
3.	8	3	69	15.	6	2	90	60.	1	0	99
4.	4	1	70	16.	1	0	90	70.	1	0	100
5.	14	5	75	17.	1	0	90	80.	1	0	100
6.	3	1	76	20.	14	5	95				
7.	2	1	77	25.	3	1	96				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EN 1-1 TUTORING: GRADE LEVELS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	167	59.2	59.2	59.2
K-3	1.	2	0.7	0.7	59.9
4-8	2.	76	27.0	27.0	86.9
OTHER MIX OF K-9	3.	37	13.1	13.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EQ 1-1 TUTORING: SUPERVISED BY GRAD STUDENT

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	266	94.3	94.3	94.3
YES	1.	16	5.7	5.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EP 1-1 TUTORING: SUPERVISED BY COLL FACULTY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	174	61.7	61.7	61.7
YES	1.	108	38.3	38.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GW 1-1 TUTORING: SUPERVISED BY SCHOOL FAC

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	175	62.1	62.1	62.1
YES	1.	107	37.9	37.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

ER SMALL GROUP INSTRUCTION-SGI: CLOCK HOURS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	163	58	58	8.	3	1	78	25.	2	1	95
1.	6	2	60	9.	2	1	79	30.	4	1	96
2.	13	5	65	10.	19	7	86	32.	1	0	96
3.	9	3	68	12.	4	1	87	38.	1	0	97
4.	5	2	70	15.	5	2	89	40.	4	1	98
5.	15	5	75	18.	1	0	89	50.	2	1	99
6.	4	1	76	20.	12	4	94	70.	2	1	100
7.	3	1	77	24.	1	0	94	80.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

ES SGI: GRADE LEVELS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	167	59.2	59.2	59.2
K-3	1.	3	1.1	1.1	60.3
4-8	2.	74	26.2	26.2	86.5
OTHER MIX OF K-8	3.	38	13.5	13.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FT SGT: SUPERVISED BY GRADUATE STUDENT

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	264	93.6	93.6	93.6
YES	1.	18	6.4	6.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EU SGI: SUPERVISED BY COLLEGE FACULTY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	155	55.0	55.0	55.0
YES	1.	127	45.0	45.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FV SGI: SUPERVISED BY PUBLIC SCHOOL FACULTY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	178	63.1	63.1	63.1
YES	1.	104	36.9	36.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FW OTHER: CLOCK HOURS

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	239	84.8	84.8	84.8
	1.	2	0.7	0.7	85.5
	2.	5	1.8	1.8	87.2
	3.	3	1.1	1.1	88.3
	5.	11	3.9	3.9	92.2
	6.	2	0.7	0.7	92.9
	8.	1	0.4	0.4	93.3
	10.	6	2.1	2.1	95.4
	15.	1	0.4	0.4	95.7
	20.	4	1.4	1.4	97.2
	24.	1	0.4	0.4	97.5
	30.	4	1.4	1.4	98.9
	60.	2	0.7	0.7	99.6
	75.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EX OTHER: GRADE LEVELS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	235	83.3	83.3	83.3
K-3	1.	1	0.4	0.4	83.7
4-8	2.	36	12.8	12.8	96.5
OTHER MIX OF K-8	3.	10	3.5	3.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EY OTHER: SUPERVISED BY GRADUATE STUDENT

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	277	98.2	98.2	98.2
YES	1.	5	1.8	1.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

F7 OTHER: SUPERVISED BY COLLEGE FACULTY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	240	85.1	85.1	85.1
YES	1.	42	14.9	14.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FA OTHER: SUPERVISED BY PUBLIC SCHOOL FAC

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	238	84.4	84.4	84.4
YES	1.	44	15.6	15.6	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FB ST PREREQUISITE-STP: PASS MATH ED COURSE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	84	29.8	29.8	29.8
YES	1.	198	70.2	70.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

EC STP: OVERALL GRADE POINT AVERAGE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	24	8.5	8.5	8.5
YES	1.	258	91.5	91.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FD GRADE POINT AVERAGE CUT-OFF SCORE

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.0	45	16.0	16.0	16.0
	1.00	4	1.4	1.4	17.4
	1.20	3	1.1	1.1	18.4
	2.00	77	27.3	27.3	45.7
	2.10	5	1.8	1.8	47.5
	2.15	3	1.1	1.1	48.6
	2.20	35	12.4	12.4	61.0
	2.25	39	13.8	13.8	74.8
	2.30	20	7.1	7.1	81.9
	2.35	3	1.1	1.1	83.0
	2.40	3	1.1	1.1	84.0
	2.50	39	13.8	13.8	97.9
	2.75	1	0.4	0.4	98.2
	3.25	2	0.7	0.7	98.9
	3.50	1	0.4	0.4	99.3
	4.25	1	0.4	0.4	99.6
	40.00	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FE STR: GRADE POINT AVERAGE IN MAJOR

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	76	27.0	27.0	27.0
YES	1.	206	73.0	73.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FF MAJOR GRADE POINT AVERAGE CUT-OFF SCORE

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.0	97	34	34	2.20	20	7	63	2.70	1	0	96
1.00	2	1	35	2.25	23	8	71	2.75	1	0	96
1.20	2	1	36	2.30	10	4	75	3.00	6	2	98
1.25	1	0	36	2.35	1	0	75	3.20	1	0	99
1.50	1	0	37	2.40	1	0	76	3.50	2	1	99
2.00	51	18	55	2.45	1	0	76	4.25	1	0	100
2.10	3	1	56	2.50	52	18	94	40.00	1	0	100
2.15	1	0	56	2.60	3	1	95				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FG ARE THERE OTHER STR'S?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	146	51.8	51.8	51.8
YES	1.	136	48.2	48.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FH STUDENT TEACHING HOURS BEFORE METHODS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
0.	239	85	85	20.	2	1	89	60.	2	1	95
2.	1	0	85	25.	1	0	89	75.	2	1	95
5.	2	1	86	30.	5	2	91	100.	3	1	96
6.	1	0	86	36.	1	0	91	120.	2	1	97
10.	3	1	87	39.	1	0	92	144.	1	0	98
12.	1	0	88	40.	3	1	93	150.	3	1	99
16.	1	0	88	50.	2	1	94	200.	3	1	100
17.	1	0	88	56.	1	0	94	240.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

F1 STUDENT TEACHING HOURS DURING METHODS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
0.	204	72	72	16.	2	1	84	70.	1	0	93
1.	3	1	73	17.	1	0	84	80.	1	0	93
2.	3	1	74	18.	1	0	85	84.	1	0	94
3.	1	0	75	20.	6	2	87	100.	2	1	94
4.	1	0	75	21.	1	0	87	120.	4	1	96
5.	4	1	77	24.	1	0	88	125.	2	1	96
6.	2	1	77	25.	2	1	88	144.	1	0	97
8.	3	1	78	30.	5	2	90	150.	3	1	98
10.	8	3	81	35.	1	0	90	200.	3	1	99
12.	3	1	82	50.	1	0	91	230.	1	0	99
14.	2	1	83	60.	4	1	92	300.	1	0	100
15.	1	0	83	64.	1	0	93	450.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FJ STUDENT TEACHING HOURS UPON GRADUATION

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	48	17	17	180.	3	1	39	400.	12	4	80
1.	1	0	17	200.	7	2	41	420.	4	1	82
5.	2	1	18	210.	1	0	41	425.	1	0	82
6.	1	0	18	225.	2	1	42	450.	11	4	86
8.	5	2	20	240.	15	5	48	474.	1	0	86
9.	4	1	22	250.	7	2	50	480.	1	0	87
10.	3	1	23	260.	2	1	51	492.	1	0	87
12.	5	2	24	270.	1	0	51	500.	13	5	91
15.	3	1	26	275.	1	0	51	520.	1	0	92
16.	2	1	26	280.	4	1	53	525.	2	1	93
20.	1	0	27	300.	34	12	65	540.	2	1	93
23.	1	0	27	310.	1	0	65	550.	1	0	94
52.	1	0	27	314.	1	0	66	560.	2	1	94
60.	1	0	28	318.	1	0	66	565.	1	0	95
64.	1	0	28	320.	3	1	67	570.	1	0	95
70.	3	1	29	325.	1	0	67	575.	1	0	95
72.	1	0	29	330.	3	1	68	600.	6	2	98
90.	3	1	30	350.	7	2	71	640.	1	0	98
96.	1	0	31	360.	6	2	73	680.	2	1	99
100.	5	2	33	365.	1	0	73	690.	1	0	99
120.	7	2	35	375.	5	2	75	700.	1	0	99
150.	5	2	37	380.	1	0	76	776.	1	0	100
160.	2	1	38	390.	1	0	76	825.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FK ST HOURS SPENT TEACHING MATHEMATICS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	91	32	32	30.	15	5	51	77.	1	0	90
1.	2	1	33	33.	1	0	51	78.	1	0	91
2.	2	1	34	35.	5	2	53	80.	4	1	92
5.	1	0	34	36.	1	0	53	85.	1	0	93
9.	1	0	34	40.	16	6	59	90.	3	1	94
10.	3	1	35	45.	8	3	62	93.	1	0	94
12.	1	0	36	48.	1	0	62	100.	9	3	97
15.	2	1	37	50.	32	11	73	110.	1	0	98
18.	1	0	37	55.	4	1	75	125.	1	0	98
20.	15	5	42	60.	18	6	81	150.	2	1	99
24.	1	0	43	65.	2	1	82	156.	1	0	99
25.	7	2	45	70.	8	3	85	200.	1	0	99
26.	1	0	45	75.	15	5	90	250.	2	1	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FL HOURS OF MATH TEACHING REQUIRED IN ST

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	227	80	80	25.	2	1	88	70.	1	0	97
1.	2	1	81	30.	3	1	89	75.	2	1	98
8.	1	0	82	35.	2	1	90	80.	1	0	98
9.	1	0	82	40.	5	2	92	93.	1	0	98
10.	7	2	84	45.	1	0	92	100.	2	1	99
15.	2	1	85	48.	1	0	93	144.	1	0	99
18.	1	0	85	50.	8	3	95	160.	1	0	100
20.	6	2	88	60.	3	1	96	300.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FM ST: NUMBER OF WEEKS

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	16	6	6	12.	21	7	57	24.	2	1	97
1.	1	0	6	14.	13	5	61	30.	1	0	98
5.	1	0	6	15.	37	13	74	32.	1	0	98
7.	1	0	7	16.	41	15	89	36.	2	1	99
8.	42	15	22	17.	4	1	90	40.	2	1	99
9.	18	6	28	18.	14	5	95	45.	1	0	100
10.	49	17	45	19.	1	0	96	60.	1	0	100
11.	11	4	49	20.	2	1	96				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FN ST: NUMBER OF HOURS PER DAY IN LAST WEEK

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	90	31.9	31.9	31.9
	2.	1	0.4	0.4	32.3
	3.	6	2.1	2.1	34.4
	4.	9	3.2	3.2	37.6
	5.	62	22.0	22.0	59.6
	6.	95	33.7	33.7	93.3
	7.	13	4.6	4.6	97.9
	8.	5	1.8	1.8	99.6
	9.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

F0 ST SUPERVISION-STS: # VISITS BY MATH ED

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	0.	223	79.1	79.1	79.1
	1.	15	5.3	5.3	84.4
	2.	7	2.5	2.5	86.9
	3.	4	1.4	1.4	88.3
	4.	12	4.3	4.3	92.6
	5.	6	2.1	2.1	94.7
	6.	3	1.1	1.1	95.7
	7.	3	1.1	1.1	96.8
	8.	2	0.7	0.7	97.5
	9.	1	0.4	0.4	97.9
	10.	3	1.1	1.1	98.9
	20.	2	0.7	0.7	99.6
	30.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FP STS: NUMBER OF VISITS BY NONMATH ED

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
0.	47	17	17	7.	8	3	74	15.	7	2	97
1.	3	1	18	8.	24	9	82	16.	2	1	98
2.	9	3	21	9.	5	2	84	17.	1	0	98
3.	26	9	30	10.	20	7	91	18.	1	0	98
4.	44	16	46	11.	3	1	92	20.	4	1	100
5.	47	17	62	12.	5	2	94	24.	1	0	100
6.	24	9	71	14.	1	0	94				

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FQ STS: NUMBER OF VISITS BY GRAD STUDENT

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	0.	262	92.9	92.9	92.9
	1.	1	0.4	0.4	93.3
	2.	4	1.4	1.4	94.7
	3.	1	0.4	0.4	95.0
	4.	4	1.4	1.4	96.5
	5.	2	0.7	0.7	97.2
	6.	2	0.7	0.7	97.9
	8.	3	1.1	1.1	98.9
	10.	2	0.7	0.7	99.6
	30.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FR STS: AVERAGE LENGTH OF VISIT

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	68	24.1	24.1	24.1
	1.	4	1.4	1.4	25.5
	10.	2	0.7	0.7	26.2
	15.	2	0.7	0.7	27.0
	20.	4	1.4	1.4	28.4
	30.	22	7.8	7.8	36.2
	40.	13	4.6	4.6	40.8
	45.	22	7.8	7.8	48.6
	50.	9	3.2	3.2	51.8
	55.	1	0.4	0.4	52.1
	60.	107	37.9	37.9	90.1
	70.	1	0.4	0.4	90.4
	75.	6	2.1	2.1	92.6
	80.	2	0.7	0.7	93.3
	90.	19	6.7	6.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FS IS THE MATH CONTENT RELATED TO SCIENCE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	222	78.7	78.7	78.7
YES	1.	60	21.3	21.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FT ARE THE MATH METHODS RELATED TO SCIENCE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	174	61.7	61.7	61.7
YES	1.	108	38.3	38.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FU HAS YOUR STATE COMMITTED ITSELF TO CBTE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	200	70.9	70.9	70.9
YES	1.	82	29.1	29.1	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FV EXTENT OF USE IN YOUR PROGRAM?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NONE	0.	150	53.2	53.2	53.2
LITTLE	1.	44	15.6	15.6	68.8
MODERATE	2.	69	24.5	24.5	93.3
EXTENSIVE	3.	19	6.7	6.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FW DOES YOUR PROGRAM PREP PRE-SCHOOL CERT?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	210	74.5	74.5	74.5
YES	1.	72	25.5	25.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FX DOES YOUR PROGRAM PREP K-3 CERTIFICATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	203	72.0	72.0	72.0
YES	2.	79	28.0	28.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FY DOES YOUR PROGRAM PREP 4-6 CERTIFICATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	242	85.8	85.8	85.8
YES	3.	40	14.2	14.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

FZ DOES YOUR PROGRAM PREP K-6 CERTIFICATION

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	122	43.3	43.3	43.3
YES	4.	160	56.7	56.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GA DO YOU HAVE OTHER CERTIFICATION OPTIONS?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	119	42.2	42.2	42.2
YES	5.	163	57.8	57.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GB IS A PRE-SCHOOL OPTION AVAILABLE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	211	74.8	74.8	74.8
YES	1.	71	25.2	25.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GC IS A MIDDLE SCHOOL OPTION AVAILABLE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	222	78.7	78.7	78.7
YES	2.	60	21.3	21.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENT VEY

C8 N-PRIMARY OPTION AVAILABLE?

	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	194	68.8	68.8	68.8
YES	3.	88	31.2	31.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GV IS A JUNIOR SECONDARY OPTION AVAILABLE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	247	87.6	87.6	87.6
YES	4.	35	12.4	12.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GF ARE OTHER OPTIONS AVAILABLE?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	-0.	213	75.5	75.5	75.5
YES	5.	69	24.5	24.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GG EVALUATION: FOLLOW-UP GRADUATES

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	43	15.2	15.2	15.2
YES	1.	239	84.8	84.8	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GH EVALUATION: WRITTEN FEEDBACK OF GRADS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	94	33.3	33.3	33.3
YES	1.	188	66.7	66.7	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

G1 EVALUATION: SURVEY OF SCHOOL TEACHERS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	130	46.1	46.1	46.1
YES	1.	152	53.9	53.9	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GJ EVALUATION: OTHER METHODS?

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
NO	0.	179	63.5	63.5	63.5
YES	1.	103	36.5	36.5	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GK METHODS A: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	144	51.1	51.1	51.1
	1.	23	8.2	8.2	59.2
	2.	17	6.0	6.0	65.2
	3.	12	4.3	4.3	69.5
	4.	13	4.6	4.6	74.1
	5.	17	6.0	6.0	80.1
	6.	5	1.8	1.8	81.9
	7.	2	0.7	0.7	82.6
	8.	11	3.9	3.9	86.5
	9.	6	2.1	2.1	88.7
	10.	32	11.3	11.3	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GL METHODS B: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	207	73.4	73.4	73.4
	1.	2	0.7	0.7	74.1
	2.	5	1.8	1.8	75.9
	3.	11	3.9	3.9	79.8
	4.	8	2.8	2.8	82.6
	5.	5	1.8	1.8	84.4
	6.	7	2.5	2.5	86.9
	7.	3	1.1	1.1	87.9
	8.	4	1.4	1.4	89.4
	9.	3	1.1	1.1	90.4
	10.	26	9.2	9.2	99.6
	16.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GM METHODS C: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	240	85.1	85.1	85.1
	1.	2	0.7	0.7	85.8
	2.	7	2.5	2.5	88.3
	3.	2	0.7	0.7	89.0
	4.	3	1.1	1.1	90.1
	5.	4	1.4	1.4	91.5
	6.	1	0.4	0.4	91.8
	7.	1	0.4	0.4	92.2
	8.	4	1.4	1.4	93.6
	9.	1	0.4	0.4	94.0
	10.	17	6.0	6.0	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GN CONTENT A: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	121	42.9	42.9	42.9
	1.	12	4.3	4.3	47.2
	2.	9	3.2	3.2	50.4
	3.	4	1.4	1.4	51.8
	4.	6	2.1	2.1	53.9
	5.	6	2.1	2.1	56.0
	6.	6	2.1	2.1	58.2
	7.	3	1.1	1.1	59.2
	8.	3	1.1	1.1	60.3
	9.	1	0.4	0.4	60.6
	10.	110	39.0	39.0	99.6
	12.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GO CONTENT B: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	159	56.4	56.4	56.4
	1.	3	1.1	1.1	57.4
	2.	3	1.1	1.1	58.5
	3.	2	0.7	0.7	59.2
	4.	4	1.4	1.4	60.6
	5.	2	0.7	0.7	61.3
	7.	1	0.4	0.4	61.7
	8.	6	2.1	2.1	63.8
	10.	102	36.2	36.2	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GP CONTENT C: YEARS SINCE LAST TAUGHT ELEM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	186	66.0	66.0	66.0
	1.	1	0.4	0.4	66.3
	2.	2	0.7	0.7	67.0
	3.	3	1.1	1.1	68.1
	4.	3	1.1	1.1	69.1
	6.	2	0.7	0.7	69.9
	8.	4	1.4	1.4	71.3
	9.	1	0.4	0.4	71.6
	10.	79	28.0	28.0	99.6
	13.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

CQ FIRST UNUSUAL PRACTICE LISTED

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	165	59	59	17.	1	0	84	38.	1	0	93
1.	1	0	59	18.	1	0	84	39.	1	0	93
2.	2	1	60	19.	1	0	84	40.	1	0	94
3.	2	1	60	20.	1	0	85	41.	3	1	95
4.	24	9	69	21.	4	1	86	42.	1	0	95
5.	1	0	69	22.	1	0	87	43.	1	0	95
6.	2	1	70	23.	2	1	87	44.	1	0	96
7.	1	0	70	24.	2	1	88	45.	1	0	96
8.	2	1	71	26.	2	1	89	47.	1	0	96
9.	1	0	71	27.	1	0	89	49.	2	1	97
10.	8	3	74	29.	1	0	89	50.	1	0	98
11.	1	0	74	30.	1	0	90	51.	1	0	98
12.	1	0	75	32.	1	0	90	52.	2	1	99
13.	2	1	76	33.	2	1	91	53.	1	0	99
14.	8	3	78	34.	1	0	91	54.	1	0	99
15.	13	5	83	35.	3	1	92	55.	1	0	100
16.	1	0	83	37.	1	0	93	56.	1	0	100

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GR SECOND UNUSUAL PRACTICE LISTED

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	230	82	82	22.	2	1	92	33.	1	0	97
4.	5	2	83	24.	1	0	93	35.	2	1	98
5.	1	0	84	25.	1	0	93	36.	1	0	98
6.	1	0	84	26.	1	0	93	39.	1	0	98
8.	1	0	84	27.	2	1	94	41.	1	0	99
13.	1	0	85	28.	1	0	94	44.	1	0	99
14.	4	1	86	30.	3	1	95	46.	1	0	99
15.	14	5	91	31.	2	1	96	49.	1	0	100
21.	1	0	91	32.	1	0	96	52.	1	0	100

VALID CASES 282 MISSING CASES 0

ELEMENTARY SURVEY

THIRD UNUSUAL PRACTICE LISTED

CATEGORY LABEL	CODE	ABSCLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
	-0.	269	95.4	95.4	95.4
	12.	1	0.4	0.4	95.7
	14.	1	0.4	0.4	96.1
	15.	2	0.7	0.7	96.8
	21.	1	0.4	0.4	97.2
	22.	1	0.4	0.4	97.5
	26.	1	0.4	0.4	97.9
	27.	1	0.4	0.4	98.2
	29.	1	0.4	0.4	98.6
	32.	1	0.4	0.4	98.9
	35.	1	0.4	0.4	99.3
	41.	1	0.4	0.4	99.6
	57.	1	0.4	0.4	100.0
	TOTAL	282	100.0	100.0	

VALID CASES 282 MISSING CASES 0

NCTM ELEMENTARY SURVEY

GU SINGLE MOST IMPORTANT ASPECT OF PROGRAM

CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT	CODE	FREQ	ADJ PCT	CUM PCT
-0.	78	28	28	16.	1	0	77	33.	7	2	90
1.	2	1	28	17.	6	2	79	34.	2	1	91
2.	40	14	43	18.	1	0	79	35.	2	1	92
3.	1	0	43	19.	1	0	79	36.	1	0	92
4.	7	2	45	20.	4	1	81	37.	5	2	94
5.	3	1	46	21.	1	0	81	38.	1	0	94
6.	41	15	61	22.	1	0	82	39.	7	2	97
7.	11	4	65	23.	1	0	82	40.	1	0	97
8.	2	1	66	24.	1	0	82	41.	1	0	98
9.	3	1	67	25.	4	1	84	42.	1	0	98
10.	3	1	68	26.	6	2	86	44.	1	0	98
11.	3	1	69	28.	1	0	86	47.	3	1	99
12.	10	4	72	29.	2	1	87	49.	1	0	100
13.	6	2	74	30.	1	0	87	50.	1	0	100
14.	3	1	76	31.	1	0	88				
15.	2	1	76	32.	1	0	88				

VALID CASES 282 MISSING CASES 0